

Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct
ctggctttgg ctatgcgcgc tggcgctgcg cctgcagcct gccctccgc aaattgtcac
cgcaaatgtg ctcctgaag accaagatgg ctctggggac gactcagaca acttctctgg
ctcaggcaca ggtgcttgc cagatatgac tttgtcacgg cagacacctt ccacttggaa
ggatgtgtgg ctcctgacag ctacacccac agctccagaa cccaccagca gggataccga
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggagggag agcccggtgg
ccacgtggaa gcagagcctg acttcactgc tcgggacaag gagaaggagg ccaccaccag
gcctagggag accacacagc tcccagtac ccaacaggcc tcaacacgcg ccagagccac
cacggcccag gcatctgtca cgtctcatcc ccacggggat gtcaacactg gcctccacga
gaccttggct cccacagcac cggccaacc tgaccatcg cctccaagtg tggaggatgg
aggcacttct gtcataaag agttgtgga ggatgaaact accaatcagc ttccctgcagg
agagggctct ggagaacaag acttcacctt tgaaacatct gggagaaca cagctgtggc
tggcgtcgag cctgaccttc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga aggaa [SEQ ID NO:1]

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gaggcgccgc gcgggaggag gagggcgca gccgcggagc cagtggcccc gcttggacgc
gctgctctcc agatacccc ggagctccag ccgcgcggat cgccgcgtcc cgccgctctg
cccctaaact tctgccgtag ctcccttca agccagcgaa ttatttcctt aaaaccagaa
actgaacctc ggcacggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agttcagag agcagccttc ccggagcacc aactccgtgt cggagtgca gaaaccaaca
agttagaggg cgccgcgttc ccggggcgca gctgccccg gccccggcgc ggcaggagg
aggaagcgag cccccccgag ccccgagccc gagtccccga gcctgagccg caatcgctgc
ggtactctgc tccggattcg tgtgcgcggg ctcgcgcgc gctggcagg aggcttcgtt
ttggccttgt tgcaagcagc ggctgggagc agccggtccc tgggaaatat gcggcgccgc
tggatcctgc tcaccttggg cttggtgcc tgcgtgtcg cggagtcgag agcagagctg
acatctgata aagacatgta cctgacaaac agtccattt aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgagctgtatga gatgttagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tggacttag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtccac
gaagaaaactg ataaagagaa agttcacctc tctgactcgaa agggaaaat gagccagcc
gaagaggata caaatgtgt tactgagaaa cactcagaca gtctgtttaa acggacagaa

[SEQ ID NO:2]

protein sequence:

GRREGARGKEEEKEEDPGREARRGRRRGAAEPVAPLGRAALQ
IPPELQPRGSRAPAALPLNFCRSSLSSQRISLKPETEPRHGKGVGGAKPQQSKKSF
REQPSRSTNSVGVQKPTSERAPRSRGAAAGGGSRRRRKAPPSPESPLSRNR
GTLLRIRVRLAERWAGGFVLFWLQAAAGSSRSLGNMRRRAWILLTGLVACVSAESRA
ELTSVDKDMYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESEPLTTTRPLPKILLT
SAAPKVETTTLNIONKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS
LFKRTE [SEQ ID NO:3]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID 9184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryota; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 4: Synd-3 (N-Syndecan) extracellular domain

gcccccgcgctgtgagccgccttgcggcacgssatgcccgcggagctgcggcgcc
tcgcgggtctgtctgtctcagcgcggcgcagcgctggctcagccgtggcgcaatg
agaactacgagaggccggtgacactggaggctctggggatgatgatcccttgggacg
atgaactggatgacatctactcgggctccggctcaggctatttggcaggagttagggt
tggagacagcggtcagcctcaccacggacacgtccgtccactgcccaccacggtgccg
tgctgcctgtcaccttggcagccatggcaacacccttggactgttccccacagagg
acacgtccctgagcaaacaaccacgcgtttgtatatccccaaagataacagaaggcacc
tgatccccagctggaaaacaaccacccggcagttaccactgcccactgtactccccagttacca
cctccaccaccaccacggctgtaccaccacaaccaccaccatcagcacca
ctgtggccacccatccaagccaccactacccagaggttcctgcccccttgcaccaagg
cagccaccacccgggaccacccctggagacgcggccaccacccatccatccctgaaaccagtg
tcctgacagaggtgaccacatcacggcttgcctccagcacagccaagccgaggtccc
tgccaaaaccaaggacttccaggactgcagaacccacggaaaaaaagcactgccttgctt
ccagccccaccacgctgccacccacagaagccccccaggtggagccagggagttgacga
cagtccctgacagtgacctggaagtcccaaccagtagtggccccagcggggacttcgaga
tccaggaggaggaggagacaactcgcttgcagctggcaatgaggtggcagtggtga
caccaccagcagcaccgggctggcaagaatgcagagccgggctcatcgacaacacaa
tagagtccggcagctcgctgtcagctccccagaaaaacatcctggagaggaaggaa

[SEQ ID NO:4]

Reference:

ACCESSION M84910
LOCUS CHKSNDPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to
mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

atggc gcctgtctgc ctgttgcgc cgctgctgct gttgcttc
ggagggttcc ccgtcgcccc aggcgagtcg attcgagaga ctgaggtcat agaccccccag
gacctcctgg aaggcagata cttctctgga gcccctccgg acgtgaaga cgctgggggc
ctttagcagg actctgactt tgagctgtcg gttccggag atctagatga cacggaggag
cccaggaccc tccctgaggt gatttcaccc ttgggtgccac tagataacca catccccgag
aatgcccagc ctggcatccg tgtccctca gagcccaagg aactggaaga gaatgaggta
attccaaaaa gggtcccctc cgacgtgggg gatgacgatg tgtccaacaa agtgtccatg
tccagcactt cccagggcag caacatTTT gaaagaactg ag [SEQ ID NO:5]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID 9206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag
ctccgggccc gaggctggtg gctgctgtgc gcggccgccc cgctagtcgc ctgcgcccgc
ggggaccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttagcc tgagcgacgt gcccaggca gagatctcg gагагcacct gcggatctgc
ccccagggt acacactgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgact ccacgacagc agccgtgccc tgcaggctac actggccacc
cagctgcatt gcatcgatga ccacttccag cgcctgctga atgactcgga gcgtacactg
caggatgctt ttcccgggc ctttgggac ctgtacacgc agaacactcg ggcctccgg
gacctgtatg ctgagctgctg tctctactac cgaggggcca acctacacct tgaggagaca
ctggccgagt tctggcactg gctgctggag cgtctttca agcagctgca cccccagctt
ctgctgccc atgactatct ggactgcctg ggcaagcagg cagaggcact gcccgcgtt
ggggatgccc ctcgagaact gcgcctgagg gccacccgtg ctttgtggc ggcacgatcc
tttgtgcagg gcctgggtgt ggccagtgcgt gtagtccgaa aggtggccca gttcctctg
ccccccagaat gttctgggc tgtcatgaag ttggtctact gtgccattg cggggagtc
cctgggtgccc gcccctgtcc cgactattgc cgaardgtgc tcaaaggctg cttgccaac
caggccgacc tgatgcccgtt gttggagaaac ctccctggact ccatggct catcactgac
aagttctggg gcccgtcggg tgccggaaat gtcattggca gtgtcatat gtggctggcg
gaggccatca acgcctcca ggacaacaag gacacactca cagctaaggat catccaggc
tgccggaaacc ccaaggtaa tcccatggc tctggcctg aggagaagcg tcgcgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctgg ctctgaggcc
aaggcccagc tccgagacat tcaggactac tggatcagcc tcccaaggac actgtgttagt
gagaagatgg ccatgagttc tgccagcgat gaccgctgct ggaatggat ttccaaggc
cggtacctac ctgaggtgtat gggtgatggg ctggccaacc agatcaacaa ccctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcago agatcatgca gctcaagatc
atgaccaacc gttacgtgg cgccctacggg ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcggtggc ggatgcccag atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccgacc cccttgaccc atgccttccc cggcttgc
gaacaggagg gacagaagac ctgc SEQ ID NO:6

Protein sequence:

MELRARGWWLLCAAAALVACARGDPASKRSRSCSEVRQIYGAKF
SLSDPQAEISGEHLRICPQGYCTCTSEMEENLANHSMRMELETALHDSSRALQATLAT
QLHGIIDDHFQRLLNDSERTLQDAFPGAFGDLYTQNTRAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFQLHPQLLPDDYLDCLGKQEAALRPFGDAPRELRLRATRAFV
AARSFVQGLGVASDVRKVAQVPLAPECSRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPSGAENVIGSVHMWLAEEAINALQDNKDT
LTAKVIQGCGNPKVNPHGSGPEEKRRRGKLALOEKSSTGTLEKLVSEAKAQLRDIQDY
WISLPGTLCSEKMMAMSPASDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFODASDDGSGSGSGGGCPDDACGRRVSKSS
SSRTPLTHALPGLSEQEGQKTS A SEQ ID NO:7

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.
TITLE Neuronal expression of glypican, a cell-surface glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan, in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggaggtgtc attgctggag gcctggtggg
cctcatcttt gctgtgtgcc tggtggttt catgctatac [SEQ ID NO:8]

Reference:
ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 8 : Syndecan-2 (human) transmembrane domain (J 04621):

gtcctagcag ctgtcattgc tggtagttt attggcttc tcttgcaat ttttcttata
ctgctgttgg tg [SEQ ID NO:9]

protein sequence:
VLAATAGGIVIGFLFAIFLILLLV [SEQ ID NO:10]

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen, P., Zhang, J., Cassiman, J.J., Van den Berghe, H. and David, G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9 : Synd-3 (N-Syndecan) chicken Transmembrane domain

gtgtttagctgtgattgtcgccggtgtggagccctttgctgccttcattgtca
tgctgctcatctac [SEQ ID NO:11]

Reference:
ACCESSION M84910
LOCUS CHKSNDPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of membrane-intercalated proteoglycans that is expressed in high amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtgggcggcg tagtggcat cctttcgcc gtttcctga
tcctgctgct ggtgtac [SEQ ID NO:12]

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 11 : Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actcgcccaag agcctcacta cttctttctg
ctcttcctgt tcaccttggc ctttgctgca gccaggccca ggtggcggtta actgccc

[SEQ ID NO:13]

protein sequence:

ATRPEPHYFFLFLFTLVLAARPRWR [SEQ ID NO:14]

Reference:

ACCESSION L34067

NID g506416

KEYWORDS glypican.

SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.

ORGANISM Rattus norvegicus

Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.

REFERENCE 1 (bases 1 to 1737)

AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system

JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12 : Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacgactgctgacgcggcttacacctgtcggtggccaccagccctgcaggcactg
cc [SEQ ID NO:15]

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID g184426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13 : Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aaccatcta caaaaaagcc
cccaccaacg agttctacgc atga [SEQ ID NO:16]

Reference:
ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)